

United States of America  
Department of Transportation -- Federal Aviation Administration  
**Supplemental Type Certificate**

**Number SA00468WI**

*This certificate issued to:*

P Ponk Aviation  
Camano Island Airfield  
1212 North Moore Road  
Camano Island, WA 98292

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations.*

*Original Product - Type Certificate Number :*

5A6

*Make :*

Cessna

*Model :*

180, 180A through 180K

*Description of Type Design Change:*

Installation of P. Ponk Aviation 0-470-50 (T.C.M.) Engine approved per STC SE4988NM, with McCauley D3A34C401/90DFA -2, -4, -6, -8 & -10 propellers on Cessna Aircraft Models 180, 180A through 180K, Serial Nos 30000 through 50911, and 18050912 through 18053203, and associated changes in accordance with C S Industries, Installation Instructions No. C-180 Sr. 30000-52770, Rev -, dated September 12, 1996, or later " FAA Approved Revisions". Airplane Flight Manual Supplement dated July 14, 1997, or later "FAA Approved Revisions" is required for airplanes with Serial Number 52770, and 18053001 through 18053203 (53001-53203).

*L imitations and Conditions:*

The McCauley Propeller Models shown above should be installed on the above Cessna Aircraft Models with P. Ponk Aviation 0-470-50 (TCM) Engine, already approved per STC SE4988NM. For the above Cessna Models, the installation of D3A34C401/90DFA -( ) is limited to not over 88 inches and not under 78 inches.  
(See continuation sheet 2 of 2)

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application :* March 22, 1996

*Date reissued :* November 20, 2003

*Date of issuance :* September 12, 1996

*Date amended :* February 21, 1997; July 16, 1997

*By direction of the Administrator*

Original signed by



(Signature)

Eual M. Conditt, Jr.  
Associate ACO Manager, Airframe & Services  
Wichita Aircraft Certification Office

(Title)

United States of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

***Number* SA00468WI**

Date of Issuance: September 12, 1996  
Date Amended: February 21, 1997  
Date Amended: July 16, 1997  
Date Reissued: November 20, 2003

***L imitations and Conditions*** (continued):

Placard is required to indicate the Operating Restrictions for Continuous Operation which should state: "Avoid Continuous Operation between the following rpm and manifold pressures at the stated diameters:"

<u>Propeller Model</u>	<u>Diameter Range (Inches)</u>	<u>RPM</u>	<u>Inches, MP</u>
90DFA -2, -4	88 to 84	1900 to 2150	26 & above
90DFA -6, -8, -10	84 to 78	1900 to 2150	30 & above

**Powerplant Limitations:**

Engine: Continental/P. Ponk 0-470-50

Fuel: 100 LL, Minimum Grade Aviation Gasoline

Engine Limits: Takeoff: 235 HP at 2700 rpm

Max Continuous Power - 235 HP, 2700 RPM

**Powerplant Instrument Markings:**

Tachometer	- Red Line	2700 RPM Maximum
	- Green Arc	2200 to 2600 RPM
Cylinder Head Temperature Gauge	- Red Line	460° F Maximum
Oil Temperature Gauge	- Red Line	240° F Maximum
Oil Pressure Gauge	- Red Line	10 psi Minimum
		100 psi Maximum
	- Green Arc	20 to 60 psi
		(Normal Operating Range)

Compatibility of this design change with previously approved modifications must be determined by the installer.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.